| <br> | <br>aims |  |
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|      |          |  |

Application/Control No.

09/943,641

Examiner

Gyan Chandra

Applicant(s)/Patent under Reexamination

BEACHY ET AL.

Art Unit

1646

| ✓ | Rejected |
|---|----------|
| _ | Allowed  |

| [- | (Through numeral)<br>Cancelled |
|----|--------------------------------|
| +  | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
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| 0 | Objected |

|          | ı               |              |              |          |          |          |                | i            |          |          |   |       |          |                |                |   |
|----------|-----------------|--------------|--------------|----------|----------|----------|----------------|--------------|----------|----------|---|-------|----------|----------------|----------------|---|
| Clair    |                 |              |              |          | _        | 204      |                |              |          |          | Г | Cla   |          |                |                |   |
| Clair    | m               | $\sim$       |              |          | _        | Date     | <del>'</del> – |              |          |          | ŀ | Cla   |          |                |                | _ |
| Final    | Original        | Color Color  | ,            |          |          |          |                |              |          |          |   | Final | Original | 06<br>06<br>55 |                |   |
|          | 1               | <br>         |              |          |          |          |                |              | _        | -        | • |       | 51       |                | $\dashv$       | _ |
|          | 2               |              |              |          |          |          |                |              |          |          |   | -     | 51<br>52 |                |                |   |
|          | 3               | •            |              |          |          |          |                |              |          |          | Ì |       | 53       |                | П              | _ |
|          | 4               | /            |              |          |          |          |                |              |          |          |   |       | 54       | П              |                |   |
|          | 5               | <b>V</b>     |              |          |          |          |                |              |          |          | • |       | 55       |                |                |   |
|          | B               |              |              |          |          |          |                |              |          |          |   |       | 56       |                |                |   |
|          | 7               |              |              |          |          |          |                |              |          |          |   |       | 57       |                |                | _ |
|          | 8               | 1            |              |          |          |          |                |              |          |          |   |       | 58       | Ш              |                |   |
|          | 9               | 1            |              |          |          |          |                |              | _        |          |   |       | 59       | Ц              |                | _ |
|          | 10              | $\perp$      |              |          |          |          |                |              |          |          |   |       | 60       | Ш              | Щ              | _ |
| -        | 11              | 4            |              |          |          |          | _              | $\dashv$     |          |          |   |       | 61       | Щ              |                | _ |
|          | 12              | $\perp$      |              |          |          |          |                |              |          |          |   |       | 62       | Ш              |                | - |
|          | 13              | +            |              | -        |          |          |                |              |          |          |   |       | 63       | Н              | -              | - |
|          | 14<br>15        | $\perp$      |              |          |          |          |                |              | -        |          |   |       | 64       | $\vdash$       | $\dashv$       | _ |
|          | 16              | +            | -            |          |          |          |                | -            |          | _        |   |       | 65<br>66 | Н              |                | _ |
|          | 17              | +            | $\vdash$     |          |          | _        |                | -            | -        | _        | } |       | 67       | -              | $\dashv$       | _ |
|          | 18              | -            |              |          | -        |          |                |              | -        | _        |   |       | 68       |                | $\dashv$       | _ |
|          | 19              | $\vdash$     |              | -        |          |          |                |              | -        | _        | 1 |       | 69       |                | $\dashv$       | _ |
|          | 20              | $\vdash$     | -            | -        | _        | -        |                |              |          | _        |   |       | 70       |                | $\dashv$       | _ |
|          | 21              | $\vdash$     |              |          | _        |          |                |              |          |          |   |       | 71       |                | $\neg$         | _ |
|          | 22              | 1            |              |          |          |          |                |              | $\neg$   |          | l |       | 72       |                |                | Г |
|          | 22<br>23        |              |              |          | _        |          |                |              |          |          |   |       | 73       |                |                | Г |
| _        | 24              |              |              |          |          |          |                |              |          |          |   |       | 74       |                |                | Г |
|          | 25              |              |              |          |          |          |                |              |          |          |   |       | 75       |                |                |   |
|          | 26              | ~            |              |          |          |          |                |              |          |          |   |       | 76       |                |                | L |
|          | 27              | Ц            |              | Ш        |          |          |                |              |          |          |   |       | 77       |                |                | L |
|          | 28              | Ц            |              |          |          |          |                |              |          |          |   |       | 78       |                |                | L |
|          | 29              | Ш            |              |          |          |          |                |              |          |          |   |       | 79       | _              |                | _ |
|          | 30              | Н-           | <u> </u>     |          |          | _        |                |              |          |          |   |       | 80       |                |                | L |
|          | 31              | 1            |              | $\vdash$ |          |          |                | _            | _        |          |   |       | 81       |                | -              | - |
|          | 32<br><b>38</b> | <u> </u>     |              |          | _        |          | _              |              |          |          |   |       | 82<br>83 | ⊢              | -              | H |
| -        | 34              | <del> </del> | -            | Н        |          |          |                | -            | -        | -        |   |       | 84       | $\vdash$       | $\vdash$       | ┢ |
|          | 35              | -            |              |          | _        | -        | -              |              |          | _        |   |       | 85       | $\vdash$       | $\vdash$       | r |
|          | 36              |              |              | Н        |          |          | _              |              | -        | $\vdash$ |   |       | 86       | Ħ              |                | r |
|          | 37              | $\vdash$     |              |          |          | Н        |                |              |          |          |   |       | 87       | П              | П              | Г |
|          | 38              |              | -            |          | -        | _        |                |              |          |          |   |       | 88       |                | П              | Γ |
|          | 39              |              |              |          |          |          |                |              |          |          |   |       | 89       |                |                | Г |
|          | 40              |              |              |          |          |          |                |              |          |          |   |       | 90       |                |                |   |
|          | 41/             |              |              |          |          |          |                |              |          |          |   |       | 91       |                |                | L |
|          | 42              |              |              |          |          | 匚        |                |              |          |          |   |       | 92       |                |                | L |
|          | 48              | <u> </u>     | <u></u>      | <u> </u> | L        | <u> </u> | <u> </u>       |              |          | <u> </u> |   |       | 93       | <u> </u>       | Щ              | L |
| $\vdash$ | 44              | _            | <u> </u>     | <u> </u> |          | <u> </u> | <u> </u>       | $oxed{oxed}$ |          |          |   |       | 94       | <u> </u>       | Щ              | L |
|          | 45              | ┞            | <u> </u>     | $\vdash$ |          | <u> </u> | <u> </u>       | _            | <u> </u> | <u> </u> |   |       | 95       | ⊢              |                | L |
| <b>}</b> | 45<br>46<br>47  |              | <del> </del> |          | _        |          | <u> </u>       |              | $\vdash$ | <u> </u> |   |       | 96       | ļ              | $\vdash$       | L |
|          | 47<br>48        | ⊢            | ├-           |          |          | ├-       | <u> </u>       | $\vdash$     |          | ├        |   |       | 97<br>98 | ┼              | $\vdash\vdash$ | ŀ |
|          | 49              | -            |              | $\vdash$ | -        | $\vdash$ | -              | $\vdash$     | _        | $\vdash$ |   |       | 99       | +              | ┝╌             | H |
| -        | 50              | $\vdash$     | $\vdash$     | -        | $\vdash$ | ┢        | $\vdash$       | H            |          | ├-       |   |       | 100      | +-             | Н              | ┝ |
| 1 1      | 96              |              |              | 1        |          |          | ı              | 1            |          | •        |   | 1     | , ,      |                | . '            | ı |

| Cla          | aim                                    | ·  |  |  | (        | Date       | •        |          |              |          |
|--------------|--|--|--|--|----------|------------|----------|----------|--------------|----------|
|              |  | h/   |  |  |          |            |          |          |              |          |
|              | e                                      | <b>μ</b> 6                                       |  |  |          |            |          |          |              |          |
| Final        | . <u>.</u>                             | M  |  |  |          |            |          |          |              |          |
| "            | ١ŏ                                     | 10   |  |  |          |            |          |          |              |          |
|              |  | クン   |  |  |          |            |          |          |              |          |
| _            | 51                                     |  |  |  |          |            | ,        |          |              |          |
| _            | 50                                     |  |  |  |          |            |          |          |              |          |
|              | 52                                     |  | _  |  | _        |            | _        |          |              | -        |
| <del></del>  | - 53                                   | ┢┈   | -  |  |          |            |          |          |              |          |
| <u> </u>     | 51<br>52<br>53<br>54<br>55<br>56<br>57 | <u> </u>   |  |  |          |            |          |          | _            | Щ        |
|              | 55                                     | L  |  |  |          |            |          |          |              |          |
|              | 56                                     |  |  |  |          |            |          |          |              |          |
|              | 57                                     |  |  |  |          |            |          |          |              |          |
|              | 58                                     |  |  | -  |          |            | _        |          |              |          |
|              | 50                                     | $\vdash$   | _  | -  |          | -          |          |          |              | _        |
|              | 59<br>60                               |  |  | <u> </u>   |          | $\vdash$   | _        | _        |              |          |
|              | 60                                     | Щ  |  |  |          | _          | $\vdash$ | _        |              |          |
|              | 61                                     |  |  |  |          |            |          |          |              |          |
|              | 62<br>63                               |  |  |  |          |            |          |          |              |          |
|              | 63                                     | П  |  |  |          |            |          |          |              |          |
| <del> </del> | 64                                     | $\vdash$   |  | -  | -        | Н          |          | $\vdash$ | -            | -        |
| <del></del>  | 64<br>65<br>66                         | $\vdash$   | -  | <u> </u>   | -        | $\vdash$   | -        | ⊢-       | -            | -        |
|              | 65                                     | lacksquare                                       | <u> </u>   | <u> </u>   | _        | L_         |          | _        | L.           | Щ        |
|              | 66                                     |  |  |  |          |            | L        |          |              |          |
|              | 67                                     |  |  |  |          |            |          |          |              |          |
|              | 68                                     |  |  |  | -        |            |          | Т        |              |          |
|              | 68<br>69                               | <del>                                     </del> | $\vdash$   | $\vdash$   | $\vdash$ | -          | _        | ┝        | -            |          |
| <u> </u>     | 09                                     |  | _  | ┝  | _        | _          |          | ⊢        |              | -        |
|              | 70                                     |  | _  | ļ  |          |            |          |          |              | $\vdash$ |
|              | 71<br>72                               |  |  | L  |          |            |          | <u> </u> |              |          |
|              | 72                                     | l  |  |  |          |            |          | 1        |              |          |
|              | 73                                     |  |  |  |          |            |          |          |              |          |
|              | 73<br>74<br>75                         | $\overline{}$                                    |  | _  | _        | Т          |          | _        | $\vdash$     |          |
| $\vdash$     | 75                                     | <del></del>                                      | $\vdash$   | $\vdash$   | -        | -          | $\vdash$ | -        |              | $\vdash$ |
|              | /5                                     | ├  | $\vdash$   |  |          | _          | _        | <u> </u> |              | ├        |
|              | 76<br>77                               | L  | <u> </u>   |  | L        | _          | _        | _        |              | <u> </u> |
| L            | 77                                     |  |  |  |          |            |          |          |              |          |
|              | 78<br>79                               |  |  |  |          |            |          |          |              |          |
|              | 79                                     |  |  |  |          |            | $\Box$   |          |              |          |
|              | 80                                     | <del>                                     </del> | _  |  | $\vdash$ | _          | ┪        |          |              | ┢╌       |
| <b></b>      | 00                                     | -  | -  | -  | ├        |            | ⊢        |          | -            | ┝        |
|              | 81                                     | <u> </u>   | _  | ļ  |          | <u> </u>   |          | L.       | _            | ļ        |
|              | 82                                     | L.   |  | <u> </u>   |          | <u>L</u> . | L        |          |              |          |
| L_           | 81<br>82<br>83                         | L  | L  | L  | L        | L_         | L        | L        |              | L        |
|              | 84<br>85                               |  |  |  |          |            |          |          |              |          |
|              | 85                                     | $\Box$   |  |  | Г        |            |          |          | ľ            | l        |
|              | 86                                     | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$ | <b>!</b>   | $\vdash$ | $\vdash$ |              | Н        |
| <del></del>  | 00                                     | ⊢  | -  | ├-   | ┝        | $\vdash$   | -        |          | <del> </del> | $\vdash$ |
| <u> </u>     | 87                                     | ļ  | <u> </u>   |  | <b>—</b> | <u> </u>   | <u> </u> |          | <u> </u>     | <u> </u> |
|              | 88                                     |  | L.   | L_   |          |            |          | _        | oxdot        | <u> </u> |
|              | 89                                     | L¯   | L  | L  | L        |            | L        | L_       | L            | L        |
|              | 90                                     |  |  |  |          |            |          |          |              |          |
|              | 91                                     | <del>                                     </del> | Т  | <del>                                     </del> | <u> </u> |            | Т        | $\vdash$ | Т            | Т        |
| <del></del>  | 92                                     | +-   | -  | $\vdash$   | $\vdash$ | $\vdash$   | -        | -        | $\vdash$     | -        |
| <u> </u>     |  |  | -  | -  | $\vdash$ | -          | ├        | 1—       |              | <b>—</b> |
| <u> </u>     | 93                                     | <u> </u>   | <u>L</u> .                                       | _  | _        | <u> </u>   | <u> </u> | <u> </u> | L            |          |
|              | 94                                     |  | L  | L  | L        | L          | L        |          |              | L        |
|              | 95                                     |  |  |  |          |            |          |          |              |          |
|              | 96                                     |  | Т  | Г  | <u> </u> |            |          | Г        |              |          |
| <del></del>  | 97                                     | 1  | <del>                                     </del> | ┢  | -        | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ |
| <u> </u>     |  | ┼  | $\vdash$   | ├  | -        | ├-         | $\vdash$ | ├        | ⊢            | ├-       |
| <u> </u>     | 98                                     | <u> </u>   | L_   | <u> </u>   | _        | L          | <u> </u> | <u> </u> | ــــ         | L_       |
| L            | 99                                     | L  | L  | L  | L        | L          |          |          | L            | L        |
|              | 100                                    |  | Γ  |  |          |            |          |          |              |          |
|              |  | •  |  |  |          |            | _        |          | _            | _        |

| Cla  | aim                             |  |  |  |  | Date           | e        |  |          |                    |
|--|---------------------------------|--|--|--|--|----------------|----------|--|----------|--------------------|
|  |                                 |  |  |  |  |                |          |  |          |                    |
| Final  | Original                        |  |  |  |  |                |          |  |          |                    |
| Fi   | rig                             |  |  |  |  |                |          |  |          | 1                  |
|  | 0                               |  |  |  |  |                |          |  |          |                    |
|  | 101                             |  |  |  | _  | _              |          |  | -        | Н                  |
| <u> </u>   | 102                             | _  | _  |  | _  | _              | _        | _  |          | Н                  |
| <del></del>                                      | 101<br>102<br>103               | -  |  |  | _  |                | -        |  |          | Н                  |
| <del></del>                                      | 103                             |  | -  | -  | _  | -              | $\vdash$ | $\vdash$   | $\vdash$ | Н                  |
| <u> </u>   | 104<br>105                      |  |  |  |  | _              | $\vdash$ |  | -        | Н                  |
|  | 105                             | -  |  |  |  | _              | $\vdash$ | _  | -        | -                  |
|  | 100                             | -  | -  |  | _  | <u> </u>       |          |  | -        | Н                  |
|  | 107                             | _  | _  | _  | -  | $\vdash$       | <u> </u> | $\vdash$   | -        | -                  |
|  | 108                             |  |  |  | _  | $\vdash$       | $\vdash$ |  | <u> </u> | -                  |
|  | 109<br>110                      | _  | _  |  |  | _              | L        | _  | H        | _                  |
|  | 110                             |  |  | _  |  | _              | $\vdash$ | _  | _        |                    |
|  | 111                             |  |  |  | L_   | _              | L        |  |          | Ш                  |
|  | 112                             |  |  | Ш  |  |                | ┕        |  |          |                    |
|  | 113                             |  |  | L  |  |                |          |  |          |                    |
|  | 114                             |  |  |  |  |                |          |  |          |                    |
|  | 115                             |  |  |  |  |                |          |  |          |                    |
|  | 112<br>113<br>114<br>115<br>116 |  |  |  |  |                |          |  |          |                    |
|  | 117                             |  |  |  |  |                |          |  |          |                    |
|  | 118                             |  |  |  |  |                |          |  |          |                    |
|  | 119                             |  |  |  |  |                |          |  | Г        | П                  |
|  | 120<br>121                      |  |  | $\vdash$   |  | $\vdash$       |          |  |          | М                  |
|  | 121                             | <del>                                     </del> |  | -  |  |                | $\vdash$ |  | _        | Н                  |
|  | 122                             | <del> </del>                                     |  | <del> </del>                                     | $\vdash$   |                |          | $\vdash$   | -        | Н                  |
| <b></b>  | 123                             | ┢  | ├─   | -  | $\vdash$   |                | $\vdash$ | _  | -        | Н                  |
|  | 123<br>124<br>125               | -  | <u> </u>   | -  | -  | -              | ┢╾       | -  | $\vdash$ | Н                  |
| <u> </u>   | 124                             | ┝  | ├  | -  | -  |                | ┢        | -  | -        | Н                  |
|  | 125                             | ⊢  | ├  | -  | -  | -              | -        | -  | $\vdash$ | $\vdash$           |
|  | 126<br>127<br>128<br>129<br>130 | -  | -  |  |  | ⊢              | $\vdash$ |  | -        | $\vdash$           |
|  | 127                             | <u> </u>   | <u> </u>   | -  |  | ⊢              |          | ⊢  | ⊢        |                    |
|  | 128                             |  | <del> </del>                                     | <u> </u>   |  | _              | Ь.       | ┡  | _        |                    |
| <u> </u>   | 129                             |  |  | _  |  | <u> </u>       | <u> </u> | <u> </u>   | <u> </u> | Щ                  |
|  | 130                             |  | L  | <u> </u>   | _  |                |          | <u> </u>   | <u> </u> | Щ                  |
|  | 131<br>132                      |  | <u>L</u>   | L  | L_   |                |          |  | ↓        | Ш                  |
|  | 132                             | _  | ᆫ  | L.   | L  |                |          |  | <u></u>  | Ш                  |
| L  | 133                             | <u> </u>   | <u> </u>   |  | <u> </u>   | <u>L</u>       |          | <u>_</u>   | <u> </u> |                    |
|  | 134                             |  | L  |  | <u></u>  |                | <u></u>  |  |          | Ш                  |
|  | 135                             | L  |  |  |  |                | $\Box$   |  | L        | $oxedsymbol{oxed}$ |
|  | 136                             | $L^-$  |  |  |  | L              | L        | L  |          |                    |
|  | 137                             |  |  |  |  |                |          | L  |          |                    |
|  | 138                             |  |  |  |  |                |          |  | $\Box$   |                    |
|  | 139                             |  | Г  | T  | Г  |                |          |  | Г        | П                  |
|  | 140                             | Г  | Г  |  |  | Г              | T        | Г  | Г        | П                  |
|  | 141                             | Т  | 一  | 1  | $\vdash$   | $\vdash$       | Т        |  |          | М                  |
| <b>—</b>   | 142                             | $\vdash$   | 1  | <del>                                     </del> | $\vdash$   | $t^-$          | ✝        | $\vdash$   | <b>†</b> | Н                  |
|  | 143                             | t  | $\vdash$   | $\vdash$   | <del>                                     </del> | Н              | $\vdash$ | <del>                                     </del> | 1        | ╁╌┤                |
| <del>                                     </del> | 144                             | $\vdash$   | <del>                                     </del> | $\vdash$   | ┢  | $\vdash$       | $\vdash$ | <del>  -</del>                                   | $\vdash$ | Н                  |
| $\vdash$   | 145                             | $\vdash$   | $\vdash$   | -  | -  | $\vdash$       | $\vdash$ | <del> </del>                                     | $\vdash$ | Н                  |
| <u> </u>   |                                 | -  | ├  | ┝  | ⊢  | ├              | ┢        | ├  | ╁        | Н                  |
|  | 146                             | ⊢  | $\vdash$   | $\vdash$   | ├  | ├              | -        | ₩  | ⊢        | Н                  |
| <u> </u>   | 147                             | ├-   | -  | $\vdash$   | $\vdash$   |                | ┼—       | ├  | ├        | $\vdash$           |
|  | 148                             | <b>—</b>   | ⊢-   | ₩  | ├-   | ⊢              | ₩        | ⊢  | $\vdash$ | Н                  |
| <u></u>  | 149                             | 1_   | <u> </u>   | <u> </u>   | ╙  | <del> </del> _ | <u> </u> | ↓_   | -        | Ш                  |
|  | 150                             | L_   |  | <u>L</u>   | <u>L</u>   | <u></u>        |          |  | L        |                    |